OIPE

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/910,582B

DATE: 06/28/2002

TIME: 14:17:15

Input Set : **A:\LJ4857.txt**

Output Set: **N:\CRF3\06282002\I910582B.raw**

```
     4 <110> APPLICANT: Ruoslahti, Erkki
     5         MacKenna, Deidre A.
     8 <120> TITLE OF INVENTION: Heart Homing Conjugates
    11 <130> FILE REFERENCE: P-LJ 4857
    13 <140> CURRENT APPLICATION NUMBER: US 09/910,582B
C-->14 <141> CURRENT FILING DATE: 2001-07-20
    16 <150> PRIOR APPLICATION NUMBER: US 09/326,718
    17 <151> PRIOR FILING DATE: 1999-06-07
    19 <160> NUMBER OF SEQ ID NOS: (15)
    21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
    23 <210> SEQ ID NO: 1
    25 <400> SEQUENCE: 1
W-->26  000
    28 <210> SEQ ID NO: 2
    29 <211> LENGTH: 7
    30 <212> TYPE: PRT
    31 <213> ORGANISM: Artificial Sequence
    33 <220> FEATURE:
    34 <223> OTHER INFORMATION: synthetic construct
    36 <400> SEQUENCE: 2
    37 Gly Gly Gly Val Phe Trp Gln
    38 1               5
    41 <210> SEQ ID NO: 3
    42 <211> LENGTH: 7
    43 <212> TYPE: PRT
    44 <213> ORGANISM: Artificial Sequence
    46 <220> FEATURE:
    47 <223> OTHER INFORMATION: synthetic construct
    49 <400> SEQUENCE: 3
    50 His Gly Arg Val Arg Pro His
    51 1               5
    54 <210> SEQ ID NO: 4
    55 <211> LENGTH: 7
    56 <212> TYPE: PRT
    57 <213> ORGANISM: Artificial Sequence
    59 <220> FEATURE:
    60 <223> OTHER INFORMATION: synthetic construct
    62 <400> SEQUENCE: 4
    63 Val Val Leu Val Thr Ser Ser
    64 1               5
    67 <210> SEQ ID NO: 5
    68 <211> LENGTH: 7
    69 <212> TYPE: PRT
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/910,582B

DATE: 06/28/2002
TIME: 14:17:15

Input Set : A:\LJ4857.txt
Output Set: N:\CRF3\06282002\I910582B.raw

```
70  <213> ORGANISM: Artificial Sequence
72  <220> FEATURE:
73  <223> OTHER INFORMATION: synthetic construct
75  <400> SEQUENCE: 5
76  Gln Gly Arg Leu Tyr Asn Tyr
77  1               5
80  <210> SEQ ID NO: 6
81  <211> LENGTH: 7
82  <212> TYPE: PRT
83  <213> ORGANISM: Artificial Sequence
85  <220> FEATURE:
86  <223> OTHER INFORMATION: synthetic construct
88  <400> SEQUENCE: 6
89  Ala Trp Gly Leu Ala Ser Tyr
90  1               5
93  <210> SEQ ID NO: 7
94  <211> LENGTH: 7
95  <212> TYPE: PRT
96  <213> ORGANISM: Artificial Sequence
98  <220> FEATURE:
99  <223> OTHER INFORMATION: synthetic construct
101 <400> SEQUENCE: 7
102 Arg Ser Met Pro Leu Leu Ser
103 1               5
106 <210> SEQ ID NO: 8
107 <211> LENGTH: 7
108 <212> TYPE: PRT
109 <213> ORGANISM: Artificial Sequence
111 <220> FEATURE:
112 <223> OTHER INFORMATION: synthetic construct
114 <400> SEQUENCE: 8
115 Arg Pro Gly Arg Leu Asn Gly
116 1               5
119 <210> SEQ ID NO: 9
120 <211> LENGTH: 8
121 <212> TYPE: PRT
122 <213> ORGANISM: Artificial Sequence
124 <220> FEATURE:
125 <223> OTHER INFORMATION: synthetic construct
127 <400> SEQUENCE: 9
128 Cys Leu His Arg Gly Asn Ser Cys
129 1               5
132 <210> SEQ ID NO: 10
133 <211> LENGTH: 12
134 <212> TYPE: PRT
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: synthetic construct
140 <400> SEQUENCE: 10
```

RAW SEQUENCE LISTING   DATE: 06/28/2002
PATENT APPLICATION: US/09/910,582B   TIME: 14:17:15

        Input Set : A:\LJ4857.txt
        Output Set: N:\CRF3\06282002\I910582B.raw

```
    141 Cys Arg Ser Trp Asn Lys Ala Asp Asn Arg Ser Cys
    142 1               5                   10
    145 <210> SEQ ID NO: 11
    146 <211> LENGTH: 8
    147 <212> TYPE: PRT
    148 <213> ORGANISM: Artificial Sequence
    150 <220> FEATURE:
    151 <223> OTHER INFORMATION: synthetic construct
    153 <400> SEQUENCE: 11
    154 Cys Ser Met Tyr Phe Gln Arg Cys
    155 1               5
    158 <210> SEQ ID NO: 12
    159 <211> LENGTH: 12
    160 <212> TYPE: PRT
    161 <213> ORGANISM: Artificial Sequence
    163 <220> FEATURE:
    164 <223> OTHER INFORMATION: synthetic construct
    166 <400> SEQUENCE: 12
    167 Cys Asn Ala Ser Ile Leu Arg Asn Gly Gln Asn Cys
    168 1               5                   10
    171 <210> SEQ ID NO: 13
    173 <400> SEQUENCE: 13
W--> 174 000
    176 <210> SEQ ID NO: 14
    178 <400> SEQUENCE: 14
W--> 179 000
    181 <210> SEQ ID NO: 15
    183 <400> SEQUENCE: 15
W--> 184 000
```

VERIFICATION SUMMARY   DATE: 06/28/2002
PATENT APPLICATION: US/09/910,582B   TIME: 14:17:16

        Input Set : **A:\LJ4857.txt**
        Output Set: **N:\CRF3\06282002\I910582B.raw**

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:26 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (1) SEQUENCE:
L:174 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (13) SEQUENCE:
L:179 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (14) SEQUENCE:
L:184 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (15) SEQUENCE: